# BELKIN®

Lighthouse Battery Backup



BU305500-USB

**User Manual** 

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# Introduction

Congratulations and thank you for purchasing the Belkin Lighthouse Battery Backup (the Unit). Each year, frequent natural and man-made power disturbances cause blackouts or brownouts that disrupt the operation of electrical equipment and related services, placing your hardware, software, and data at risk. This innovative new power accessory includes a detachable, rechargeable flashlight that illuminates immediately in the event of a power outage. The Unit provides an uninterruptible power supply (UPS) to keep your critical systems up and running so that you can shut down safely.

### Before Getting Started PLEASE SAVE THIS USER MANUAL!

Page

It contains important operating instructions and warranty information pertaining to your Battery Backup. Before installation, please inspect the Unit upon receipt to make sure that nothing is damaged.

# Please save or recycle the packaging materials!

The Unit's packaging was designed with great care to provide protection during shipment and delivery. These materials are invaluable if you ever have to return the Unit for service. Damage sustained during transit is not covered under the warranty.

# Introduction

### **Package Contents**

- 1 Battery Backup System
- 1 Detachable LED Flashlight
- 1 Installation CD containing Belkin Automatic Shutdown Software

### **Safety Information**

### CAUTION:

- Risk of electrical shock—hazardous live parts inside. The Unit is energized by the battery supply even when the input AC power is off.
- Risk of electrical shock—do not open the case.
- No user-serviceable parts exist inside the Unit. Refer repair issues only to qualified personnel. Fuses or other parts must be replaced ONLY with parts of identical types and ratings. Substitution of non-identical parts can cause fire and other safety hazards.
- The Unit is intended for installation and operation in a controlled environment (a temperature-controlled, indoor area free of conductive contaminants).

- 1 USB Cable
- 1 Phone-Line Cable
- 3 AAA NiMH Batteries
- Incorrect battery connection or replacement creates risk of explosion.
- All batteries used are sealed-lead batteries. Batteries should be recycled.

### System Requirements

The Lighthouse Battery Backup can be used without the software with any computer using up to a 17-inch CRT or LCD monitor. You do not have to have the software installed to utilize the battery-backup outlets.

To fully utilize the Unit and its software, your computer must be running one of the following operating systems: Windows<sup>®</sup> 98, Me, NT<sup>®</sup> 4, 2000, 2003, XP, and have a USB port.

### **Features and Functions**

### 1 Battery-Backup Outlets (Fig. 1)

Only data-sensitive equipment such as a computer, monitor, and external drive should be plugged into these outlets. Battery power is automatically provided in case of a power outage. Power (AC or battery) is not supplied to these outlets when the Unit is switched off. (Do not plug surge protectors or power strips into the battery-backup outlets.)

Caution: Never connect a laser printer or scanner to the backup outlets along with other computer equipment. To do so might overload the Unit.

### 2 Surge-Protected-Only Outlets (Fig. 1)

Plug in equipment such as computer peripherals, printers, fax machines, or desk lamps to these outlets.

#### NOTE: These outlets do not provide battery power during an outage. The "On/Off" button does not control these outlets.

Do not plug surge protectors or power strips into the battery-backup outlets (i.e., daisy-chaining).

### 3 AC Circuit Breaker (Fig. 1)

Should a power overload occur, the circuit breaker triggers the Unit to turn off AC power. To restore power, depress the "circuit breaker" button to reset, then depress the "Power" button.

# **Featues and Functions**

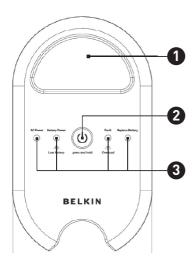
### **4** USB Communication Port (Fig. 1)

The Unit features a USB communication port. Installation of the cable and the Belkin Automatic Shutdown Software, which allows the Unit to connect to your computer, is optional. The Unit will provide backup power whether or not the cable and software are installed; however, without them you will be unable to utilize the data-management product features.

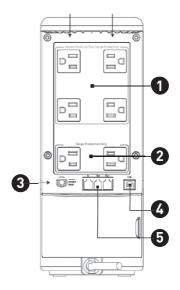
### 5 Phone/Fax/Modem Surge Protection (Fig. 1)

The phone/fax/modem lines are surge-protected. There are one input jack and two output jacks. This allows you to split one telephone connection to two separate devices.

### Top Panel (Fig. 2)



### Back Panel (Fig. 1)



### Cord-Management Loop (Fig. 2)

This feature helps to organize and manage the power cables from your connected equipment. Route all power cables through the loop for a clean and organized workspace.

### 2 The "On/Off" button has four functions: [Fig. 2]

a) Turns on the Unit. Depress button at least 2 seconds. The green indicator lights.

**b)** Cold-start function. If the battery is charged, the Unit will work without being plugged into an outlet. Depress and hold the key for at least 2 seconds to turn on the Unit.

c) Silence function. During "On Battery Mode", the audible sound can be turned on or off by depressing the switch for less than 1.5 seconds.

d) Battery-test function. During "On-Line Mode", depressing the switch for less than 1.5 seconds causes the Unit to perform a battery test in backup mode.

### 3 Status Indicators (Fig. 2)

Four LED status lights are located on the front panel. The status lights indicate specific conditions of the Unit. (See page 5.)

# **Features and Functions**

### LED Indicators and Audible Alarms

The Unit will alarm to indicate certain events.



Front-Panel Label	Visual Indicator	Audible Alarm	Description
AC Power	AC Power LED lights	None	The Unit is operating normally on AC power.
Battery Power	Battery Power LED lights	Tone every 10 seconds	The Unit is operating on battery power. The alarm will stop when main AC power is returned.
Low Battery	Low Battery LED flashes	Tone every 1 second	The battery energy is running low. This alarm will continue until the Unit performs a forced shutdown when the battery is depleted.
Fault	Fault LED lights	Continuous tone	A fault has occurred. Disconnect all equipment from the Unit prior to checking.
Overload	Overload LED flashes	Tone every 1 second	The Unit is overloaded. Remove connected equipment until fault mode is cleared.
Replace Battery	Replace Battery LED lights	None	The battery has reached the end of its useful life. The user must replace the battery as soon as possible to ensure proper operation of the Unit.

NOTE: The audible alarm will not sound after the alarm is muted.

### Flashlight

The Unit contains a fully functional, detachable LED flashlight. The flashlight will automatically illuminate when the power goes out. This safety function provides an easy way for you to find the flashlight while illuminating the area surrounding the Unit. The LED flashlight may be removed from the Unit to use as a handheld, portable flashlight.

To remove the LED flashlight from the Unit's recharging dock, pull the top of the LED flashlight out and downward until it disengages. When not in use, return the LED flashlight to the Unit's recharging dock. The LED flashlight will only fit one way in the recharging dock: with the flashlight lens pointing toward the top of the Unit and the LED flashlight button toward the outside. The LED flashlight will only recharge if properly docked on the Unit.

### Flashlight Recharging and Battery Replacement CAUTION:

 The detachable LED flashlight contains 3 NiMH 700mAh AAA batteries. When replacing batteries, replace with the same number and type of batteries. Do not attempt to use alkaline or other non-NiMH battery types for replacement.

- Risk of energy hazard. Before replacing batteries, remove conductive jewelry such as chains, wristwatches, and rings. High energy through conductive materials could cause severe burns.
- Do not short-circuit the batteries.
- Carefully install the batteries in the LED flashlight housing, ensuring proper polarity. Reverse polarity installation may cause damage. The battery installation polarity is labeled on the LED flashlight housing.
- Do not heat or incinerate the battery. The battery may explode.
- Only use the UPS Unit to recharge the batteries. Charging under other conditions can cause the battery to leak, overheat, burst, and/or catch fire.
- Properly dispose or recycle used batteries.

# **Technical Specifications**

Capacity	550VA/300W
Input Voltage (Nominal)	120VAC
Input Voltage (Range)	96VAC-135VAC
Input Frequency (Nominal)	60Hz
Transfer Time (Typical)	≤10ms (Typical)
Alerts	Visual and Audible
Input Breaker	10A/125VAC UL/cUL
Surge Energy Suppression	700 Joules (Total Performance Rated With 10*1000µs Pulse)
Efficiency (AC Mode)	≥90% (Input Voltage=120VAC; Switching Load=300W) Battery Mode
Waveform	Step Wave (Pseudo Sine-Wave)
Short-Circuit Protection (AC Mode)	Shutdown
Short-Circuit Protection (Backup Mode)	Shutdown
Battery Type	12V/4.5Ah
Battery Protection	30A/32V Fuse *2 pcs
Recharge Time (At 25° C)	≤16 Hours Recover 85% Capacity (After Full Loading Discharge / Input Voltage 120VAC)
Battery Run Time (90% Full Load)	≥1.0 Minutes (At Temperature 25° C)
Battery Run Time (Half Load)	≥6 Minutes (At Temperature 25° C)

Battery Overvoltage Protection	$Voltage > 15.0V \pm 0.5V$
LED Flashlight	NiMH AAA
Battery Type	1.2V/700mAh* 3 pcs
LED Flashlight Recharge Time	(At 25° C) – ≤8 Hours Recover 85% Capacity (After Full Discharge/Input Voltage 120VAC)
LED Flashlight	≥10 hrs @ Full battery charge
Battery Runtime	& Amb 25° C

#### Interface/Communication

USB Port Modem Protection Single Line (2 Wire, RJ11) Jack (In\*1; Out\*2)

#### Environment

Operating Temperature	0° C ~ 35° C
Non-Operating/ Storage Temperature	15° C ~ 40° C (With Battery) 15° C ~ 50° C (Without Battery)
Operating Humidity	0 ~ 85% RH (Non-Condensing)
Audible Noise	< 42 dBA At 1 Meter

#### Safety Standards

UL/cUL Meets UL 1778/cUL
EMI Meets FCC Class B

### **BELKIN**<sup>®</sup>

www.belkin.com

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### **Features and Functions**

#### Flashlight Controls and Functionality

The LED flashlight will automatically turn on in the following conditions:

- when the LED flashlight is on the Unit recharging dock and
  - · the AC power is removed;
  - the LED flashlight is removed from the dock;
  - the LED flashlight button is pressed.
- when the LED flashlight is removed from the Unit recharging dock and
  - the LED flashlight button is pressed

To turn off the LED flashlight when the light is ON in any condition:

• press the LED flashlight button.

#### NOTE:

- We ship the LED flashlight without the batteries installed. Carefully install the batteries ensuring proper polarity, which is labeled on the LED flashlight housing. After installing the UPS and turning it on, charge the LED flashlight for at least 8 hours prior to use.
- During the initial charge period, the LED flashlight may not function properly due to low battery charge.

### Installation

NOTE: For maximum benefit, install the Unit in an easily accessible location so you may detach the flashlight for use. Do not place anything on top of the Unit that may obscure the control panel or flashlight.

### A. Connect to AC Utility Power

Plug in the AC cord to a properly grounded wall outlet. Please make sure there are no devices plugged into the Unit.

#### B. Charging the Battery

For best results, charge the battery for eight hours prior to initial use. The Unit charges its battery whenever it is connected to the utility power.

#### C. Plug in Power Devices

Plug your devices into the AC outlets on the top of the Unit. To use the Unit as a master on/off switch, make sure all of the loads are switched on.

Caution: Never connect a laser printer or scanner to the backup outlets along with other computer equipment. A laser printer or scanner draws significantly more power when in use than when idle. This may overload the Unit.

#### D. Turning on the Unit

Turn on your Battery Backup by pressing and holding the "On/Off" button for longer than two seconds until the "AC Power" green light comes on. The Unit will beep once.

#### E. Turning off the Unit

Turn off your Battery Backup by pressing and holding the "On/Off" button for more than two seconds until the "AC Power" or "Battery Power" LED goes off. The Unit will beep once.

### F. To Conduct a Self-Test

Use the self-test to verify both the operation of the Unit and the condition of the battery. In normal utility power, push the "On/Off" button for less than 1.5 seconds and the Unit will perform a self-test function. During the self-test, the Unit operates in backup mode.

NOTE: During the self-test, the Unit briefly operates on battery-backup power (the "Battery Power" LED comes on). If the Unit passes the self-test, it returns to online operation. If the Unit fails the self-test, it immediately returns to online operation and lights the "Replace Battery" LED. The loads are not affected. Recharge the battery overnight and perform the self-test again. If the "Replace Battery" LED is still on, the battery needs to be replaced.

#### G. To Silence Audible Alarm

While the Unit is in battery-backup mode, push the "On/Off" button for less than 1.5 seconds to silence the audible alarm. (This does not work if the Unit is in a LOW BATTERY or OVERLOAD condition.)

All equipment must be powered off prior to plugging into the Unit (installation).

# Installation

### H. Connect the Phone/Fax/Modem Lines

Connect a single phone/fax/modem line into the surge-protected outlets on the back of the Unit. The RJ11 modular outlet accepts standard single-line telephone connections. The connection will require another length of telephone cable (included).

NOTE: This connection is optional but highly recommended as phone/fax/modem lines often carry dangerous surges and spikes. The Unit works properly without a phone/fax/modem connection.

CAUTION: The phone/fax/modem protection feature could be rendered inoperable if

improperly installed. Make sure that the telephone line from the wall is plugged into the connector marked "IN", and the device to be protected is plugged into the connector marked "OUT".

### I. Connect the USB (Universal Serial Port) Communication Port

A USB port is provided to relay the signal to support Windows. To fully utilize the Belkin Automatic Shutdown software, you will need to connect the Unit to your computer. Connect the USB cable to the Unit, then connect the other end to your computer's USB port.

### **Battery–Replacement Procedure**

#### Caution:

- The Unit contains a 12V sealed-lead acid battery. Replace only with identical battery type, as specified on the factory-installed battery.
- Risk of energy hazard. Before replacing batteries, remove conductive jewelry such as chains, wristwatches, and rings. High energy through conductive materials could cause severe burns.
- · Do not short-circuit the battery.
- Carefully install the batteries in the Unit housing, ensuring proper polarity. Reverse polarity installation may cause damage.
- Do not dispose of batteries in a fire. The battery may explode.
- Do not open or mutilate batteries. Released material is harmful to the skin and eyes. It may be toxic.
- Use the UPS Unit only to recharge the batteries. Charging under other conditions can cause the

battery to leak, overheat, burst, and/or catch fire.

• Properly dispose or recycle used batteries.

Replacement requires removing the battery cover plate on the back of the Unit. No tools are needed. To replace the batteries:

- 1. Press fastener to remove the battery cover plate on the back of the Unit.
- 2. Disconnect the insulated connectors from the battery terminals.
- 3. Remove the battery then insert a new battery pack, and push the connectors onto the battery terminals (black-to-black and red-to-red). **WARNING:** Misconnection of the electrical polarity may result in damage.

NOTE: There may be a small spark at the battery terminals when reconnecting the connectors. This is normal and will not harm you or the Unit.

4. Close the battery cover.

### **Belkin Automatic Shutdown Software Installation**

### Software Installation (Optional)

- A) To fully utilize the Battery Backup and its software, your computer must be able to operate the following operating systems: Windows 98, Me, NT 4, 2000, 2003, or XP, and have a USB port.
- B) Your Battery Backup features the Belkin Bulldog Plus Software. This protects and saves your data should a power outage

occur, and safely shuts down your computer in your absence. Please be sure to close all applications prior to installing the software.

- 1.To install the software, place the CD into your computer's CD-ROM drive.
- Your computer should automatically run the installation from the CD. If it does not, click the "Start" icon on the lower, lefthand corner of your screen, and select

### **Belkin Automatic Shutdown Software Installation**

"Run" from the menu that appears. Enter or browse to the CD drive (it may be D). Next, double-click "setup.exe" to execute the software. Should you continue to have a problem, please refer to your computer's owner manual to check the designation for your CD-ROM drive.

- 3.The "Welcome to the Belkin Bulldog Plus Product Installation Browser" will appear. Please click "Install" and select the Windows version.
- 4.The "Bulldog Plus Installation" window will appear. Please choose the appropriate software to install.
- 5. The InstallShield Wizard will appear on-screen. Click "Next".
- Please read the User License Agreement and click "Yes".
- 7.For "Setup Type", ALL (Standalone) is the default. Standalone is for battery-backup management for your computer only. Networking management is for administrators who need to manage several battery backups in a workstation environment. Do not install the networking files unless you are technically qualified to use these features. For more information on networking, please refer to the software user's manual.
- 8.For "Choose Destination Folder", you have the option to choose the location on your computer for the software. We recommend using the default option as shown on-screen. To use the default option, click "Next".
- 9.For "Select Program Folder", you have the option to choose the program folder for your software. We recommend using the default option as shown on-screen. To use the default option, click "Next".
- 10.In the "Select Language" screen, please choose the language you wish to use.
- 11. The software will now be installed. Once completed, click "Finish".

NOTE: Please refer to the help feature found on the "Belkin Bulldog Plus Monitor". To access this screen, please click the Belkin InstallShield Wizard found in the lower, right-hand corner on your taskbar. Once the "Bulldog Plus Online" screen appears, choose "Help". The "Bulldog Online Help" screen will appear. You may use the Contents, Index, or Search tabs to assist you with your help issues and to get more information on the specific features and functions of the software.

#### C) User Manual Installation

You will need Adobe Acrobat Reader to review the user manuals. If you do not have the Reader, please go to www.adobe.com to download a free version of the software.

- 1.From the "Welcome to the Belkin Bulldog Plus Product Installation Browser" window, locate and choose "User Manuals".
- The "Bulldog Plus User Manuals" window will appear. Please move your pointer to the manual you wish to open and click on it.
- 3.An Adobe PDF file will be opened. To save a copy to your hard drive, you will need to go to "File" on your menu bar and choose "Save a copy".
- 4.In the "Save a Copy" window, please choose a destination folder for the manual.
- D) Uninstall for Windows 98, Me, NT 4, 2000, 2003, XP

There are two options for uninstalling the Belkin Bulldog Plus Software.

### Option 1

- Click on "Start" in the lower, left-hand corner of your screen and go to the "Programs" folder. Scroll to the "Belkin Bulldog Plus" folder and choose "Setup". The InstallShield Wizard will appear.
- 2. Choose "Remove" and click "Next".
- The "Program Files" and "Audio Files" will be checked. If they are not, please check them. Click "Next". The uninstall procedure will begin.
- 4. Click "Finish" when complete.

#### Option 2

(Note: Windows 2000, 2003, and XP users, click on "Start" and choose "Control Panel"; then go to step 2.)

 Click on "Start" in the lower, left-hand corner of your screen, go to "Settings", and choose "Control Panel".

# **Belkin Automatic Shutdown Software Installation**

- In Control Panel, locate and click on the "Add/Remove Programs" icon. The "Add/Remove Programs" window will appear.
- Locate and select the Belkin Bulldog Plus Software. Click the "Change/Remove" button on the right. InstallShield Wizard will appear.
- 4. Choose "Remove" and click "Next".
- "Program Files" and "Audio Files" will be checked. If they are not, please check them. Click "Next". The uninstall procedure will begin.
- 6. Click "Finish" when complete.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Flashlight does not turn on or operates abnormally	Flashlight batteries not fully charged	Return the LED flashlight to the Unit charging dock and charge for at least 8 hours.
	Flashlight does not charge—Unit charging dock not functioning	1. Make sure the UPS Unit is plugged in and turned on.
		<ol> <li>Clean off the 2 metal contacts on the flashlight and the Unit charging dock using a dry, lint-free cotton cloth. Do not use any liquid to clean these surfaces.</li> </ol>
		<ol> <li>If the LED flashlight does not appear to recharge after cleaning the contacts, replace the rechargeable NiMH batteries using identical replacement batteries.</li> </ol>
Unit not on, LED not lit	"On/Off" button not pushed or pushed less than 2 seconds	Press the "On/Off" button for more than 2 seconds
	Battery voltage is too low	Recharge the Unit at least 8 hours
	UPS fault	Contact service personnel (1-800-2 BELKIN)
Unit always on battery	Power cord loose	Re-plug the power cord
mode	AC breaker is burned out or tripped	Replace or reset the breaker
	AC utility voltage is too high or too low, or there is a blackout	Normal condition
Backup time too short	Battery not fully charged	Recharge the Unit at least 8 hours
	The Unit is on overload	Remove some unnecessary loads
	Charger fault or other reason	Replace battery; contact www.belkin.com
The Unit continuously beeps	Overload	Disconnect non-critical devices
Red LED lit	Battery failure	Replace battery; contact www.belkin.com

### Troubleshooting

# **General Information**

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# **General Information**

not apply to you. This warranty gives you specific legal rights, which vary from jurisdiction to jurisdiction.

HOWEVER, YOU WAIVE SUCH RIGHTS, EXCEPT AS EXPRESSLY PROVIDED UNDER THE TERMS AND CONDITIONS OF THIS AGREEMENT, TO THE MAXIMUM EXTENT ALLOWED BY LAW.

The license is governed by the laws prevailing in the State of New York, without regard to its conflicts of laws principles.

### ACKNOWLEDGMENT:

By opening the package on which this Agreement is printed, or through which it is visible, you acknowledge that you have read this Agreement, understand it, and agree that this Agreement is the complete and exclusive

### Storage

Store the Unit covered and upright in a cool, dry location with its battery fully charged. Before storing, charge the Unit's battery for at least six (6) hours. Disconnect any cables connected to the computer interface port to avoid unnecessary drainage of the battery. statement of agreement between yourself and Belkin and supersedes any prior agreements, oral or written, and any other communications relating to the subject matter of this Agreement.

#### SEVERABILITY:

Any term or provision of this Agreement or any application thereof, which may be prohibited or unenforceable by law in a particular jurisdiction, shall be interpreted and enforced to the maximum extent allowed in such jurisdiction (which the parties acknowledge could mean severing the provision from this Agreement or, if allowed, enforcing it in a narrower form), without affecting the remainder of this Agreement, or any other application of such term or provision in such jurisdiction, or application of such term or provision in any jurisdiction.

### **Extended Storage**

During extended storage in environments where the ambient temperature is  $+5^{\circ}$  F to  $+86^{\circ}$  F, charge the Unit's battery every six (6) months. During extended storage in environments where the ambient temperature is  $+86^{\circ}$  F to  $+113^{\circ}$  F, charge the Unit's battery every three (3) months.

Note-Store the Unit:



Away from sunlight . Away from heat . Away from water

# **Recycling Information**

Your Battery Backup contains a non-spillable, sealed-lead battery. On the battery, you will find the battery name. Please reference the chart below for recycling information.

Battery Name	Recycling Inside the USA	Recycling Outside the USA
BB Battery	(800) 278-8599	N/A
CSB Battery	(800) 738-7372	1 (817) 244-4415
VISION Battery	(604) 730-2877	N/A
Ritar Battery	(888) 841-5179	N/A